

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042963.D
 Acq On : 22 Sep 2025 18:39
 Operator : SY/MD
 Sample : Q3112-01DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: Sep 23 02:53:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

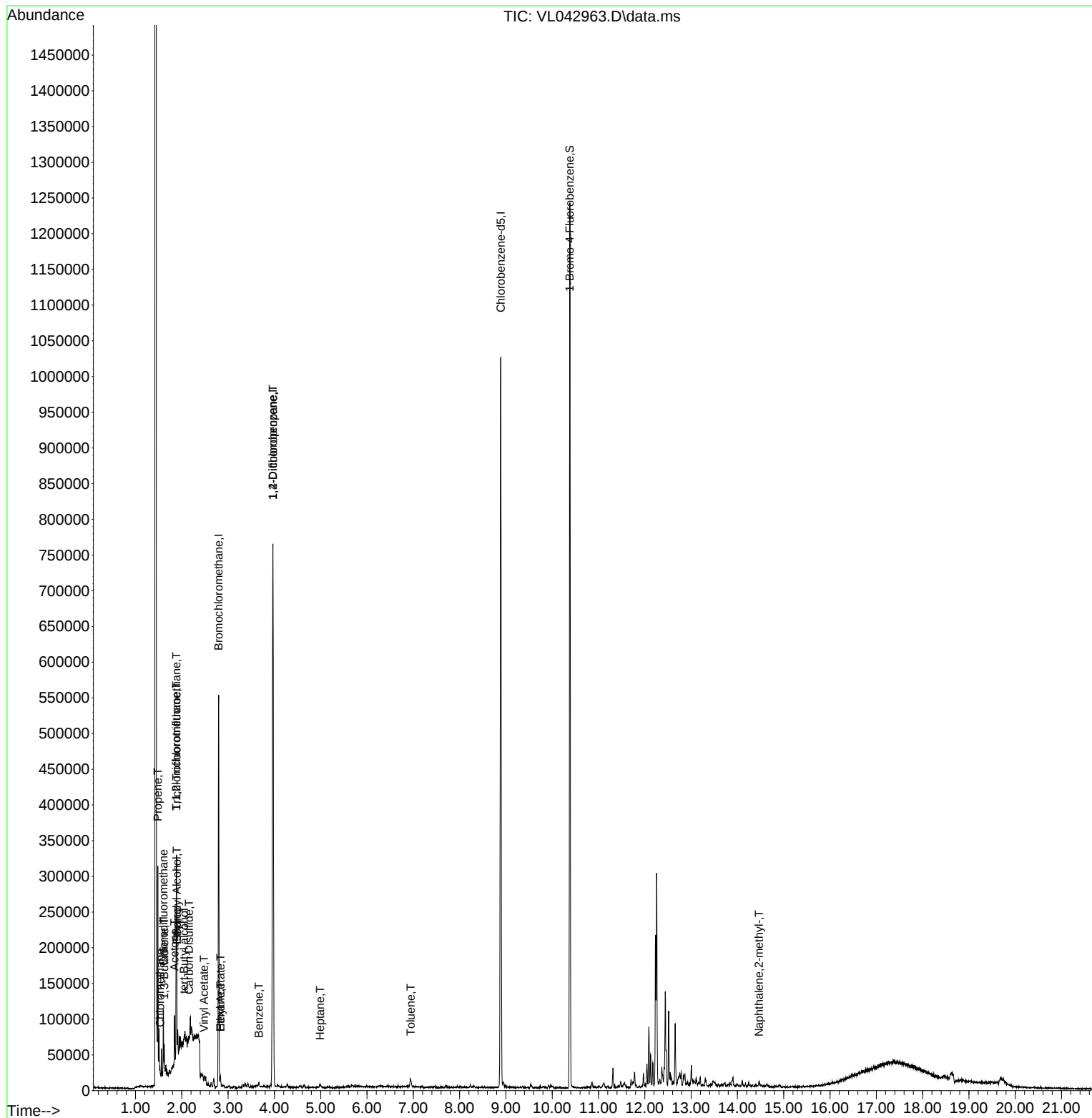
Internal Standards						
1) Bromochloromethane	2.797	49	159723	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.968	114	495497	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.888	117	436304	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	322820	9.912	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.602	51	3353	0.125	ppbv	100
4) Chloromethane	1.531	50	323	0.033	ppbv	99
9) Propene	1.483	41	41021	3.522	ppbv	88
10) Heptane	4.988	43	1036	0.033	ppbv #	31
11) Trichlorofluoromethane	1.884	101	103754	5.009	ppbv	97
12) 1,1,2-Trichlorotrifluo...	1.884	101	103754	6.185	ppbv #	15
13) Ethanol	1.894	45	19466	17.227	ppbv #	35
15) Acetone	1.842	43	31697	1.524	ppbv	95
16) 1,3-Butadiene	1.622	39	2486	0.253	ppbv #	11
17) tert-Butyl alcohol	2.049	59	2591	0.114	ppbv #	80
19) Isopropyl Alcohol	1.894	45	19466	1.557	ppbv #	42
20) Methylene Chloride	2.068	84	2791	Below Cal	#	83
23) Vinyl Acetate	2.479	43	2822	0.095	ppbv #	27
25) Ethyl Acetate	2.836	43	3260	0.062	ppbv #	79
26) Hexane	2.836	57	3758	0.157	ppbv #	52
27) Carbon Disulfide	2.156	76	763	0.035	ppbv #	1
36) Benzene	3.667	78	3457	0.074	ppbv #	91
39) 1,2-Dichloropropane	3.968	63	118064	6.950	ppbv #	25
53) Toluene	6.946	91	3971	0.072	ppbv #	12
80) Naphthalene,2-methyl-	14.465	142	2848	0.165	ppbv	96

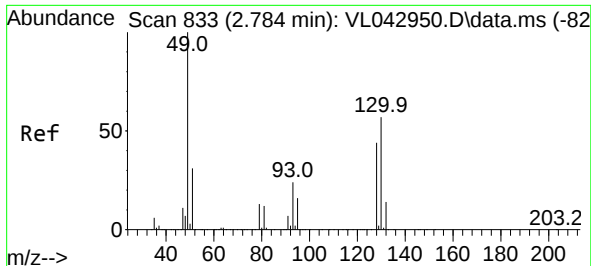
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
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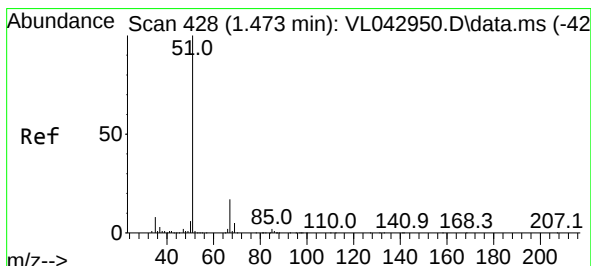
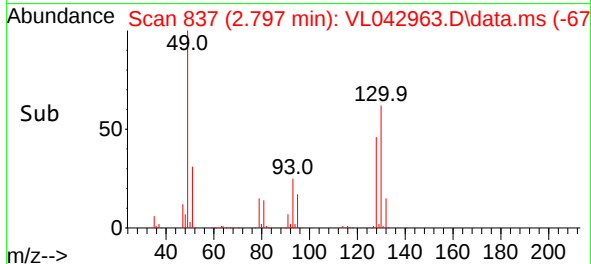
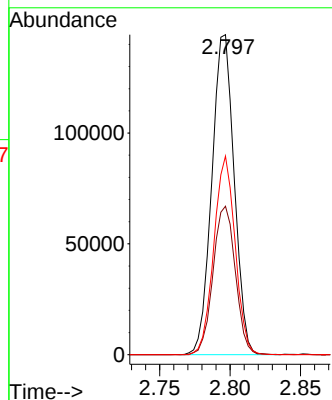
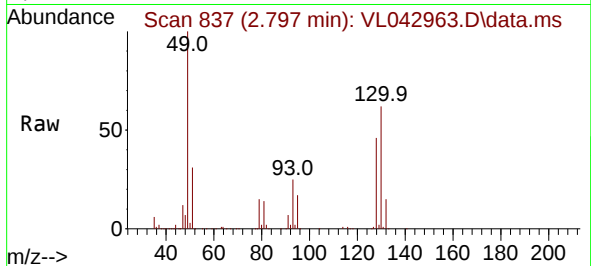




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL042963.D
Acq: 22 Sep 2025 18:39

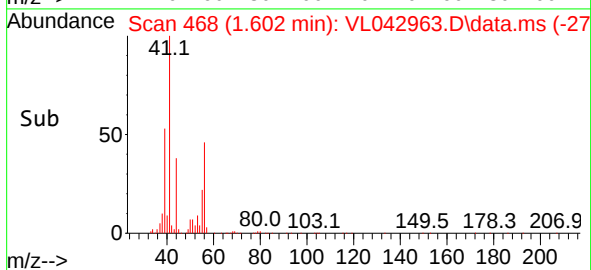
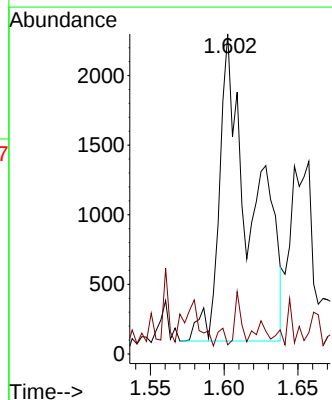
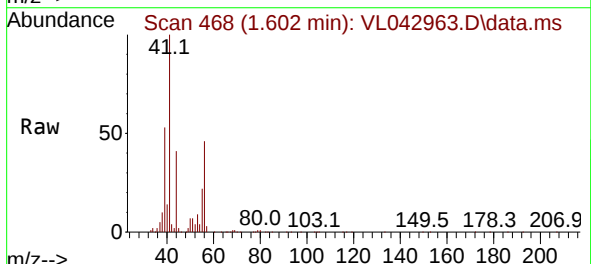
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

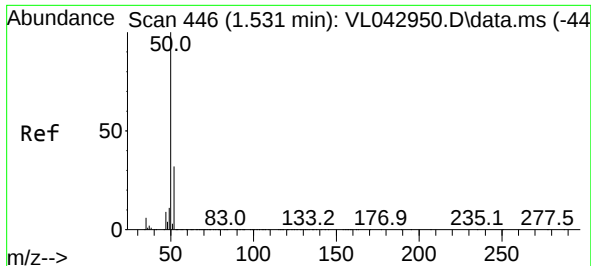
Tgt Ion: 49 Resp: 159723
Ion Ratio Lower Upper
49 100
128 46.3 22.9 68.8
130 59.0 29.1 87.3



#3
Chlorodifluoromethane
Concen: 0.125 ppbv
RT: 1.602 min Scan# 468
Delta R.T. 0.129 min
Lab File: VL042963.D
Acq: 22 Sep 2025 18:39

Tgt Ion: 51 Resp: 3353
Ion Ratio Lower Upper
51 100
67 17.3 13.8 20.8

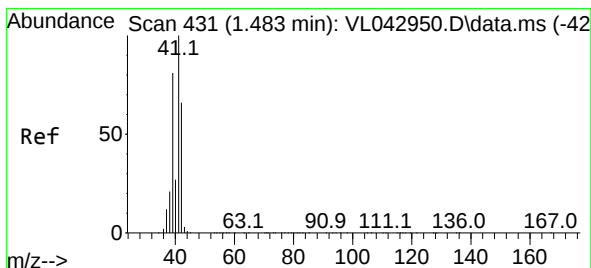
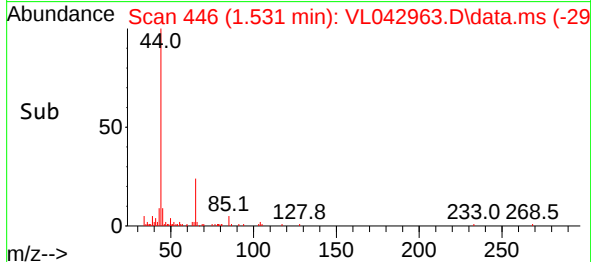
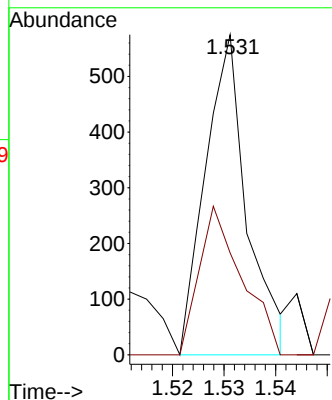
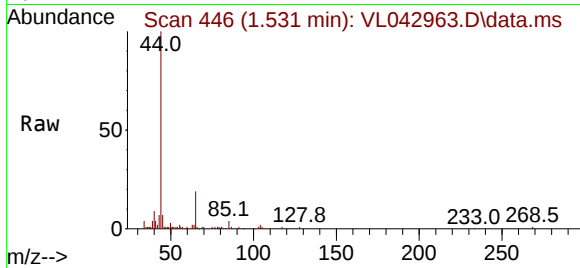




#4
Chloromethane
Concen: 0.033 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042963.D
Acq: 22 Sep 2025 18:39

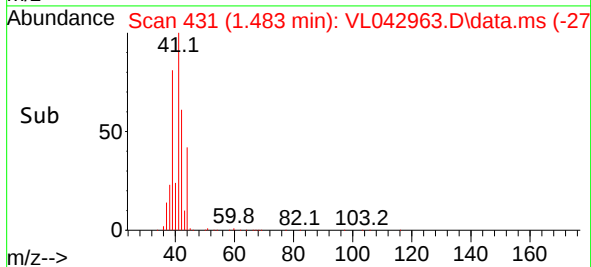
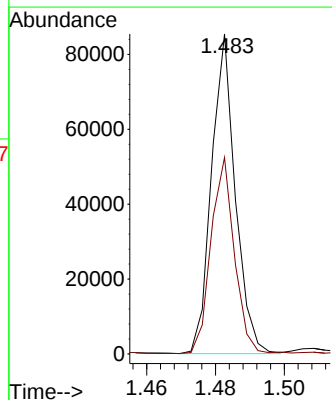
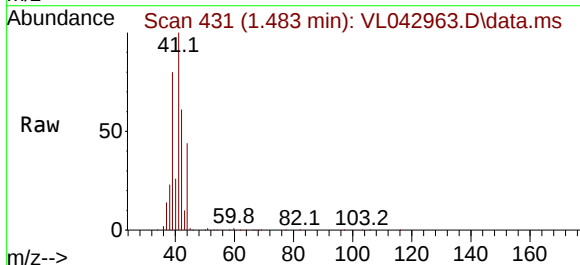
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

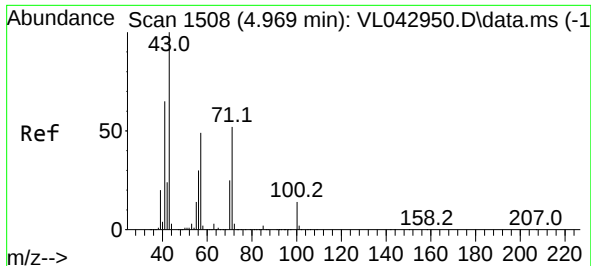
Tgt Ion: 50 Resp: 323
Ion Ratio Lower Upper
50 100
52 31.8 25.9 38.9



#9
Propene
Concen: 3.522 ppbv
RT: 1.483 min Scan# 431
Delta R.T. -0.000 min
Lab File: VL042963.D
Acq: 22 Sep 2025 18:39

Tgt Ion: 41 Resp: 41021
Ion Ratio Lower Upper
41 100
42 62.2 57.4 86.2

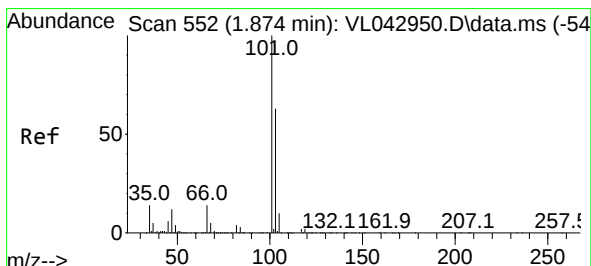
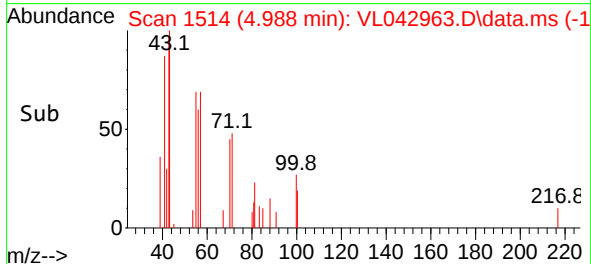
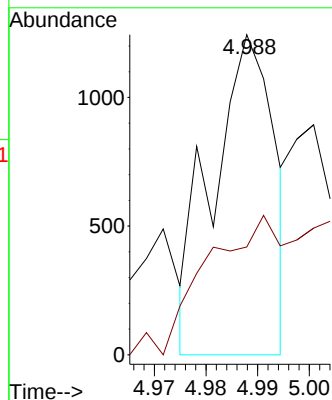
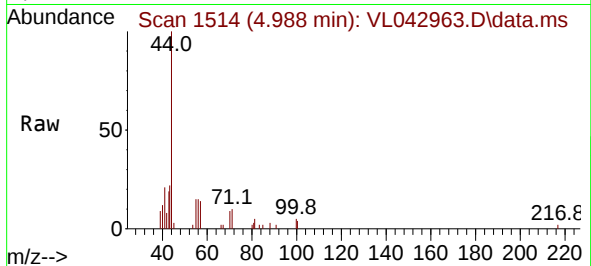




#10
Heptane
Concen: 0.033 ppbv
RT: 4.988 min Scan# 11
Delta R.T. 0.019 min
Lab File: VL042963.D
Acq: 22 Sep 2025 18:39

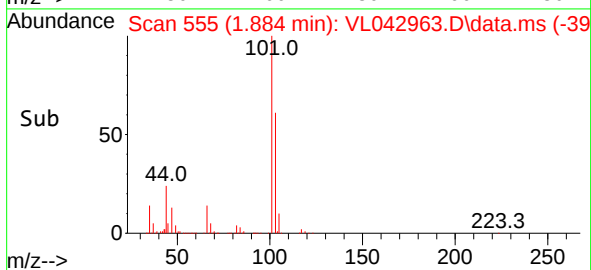
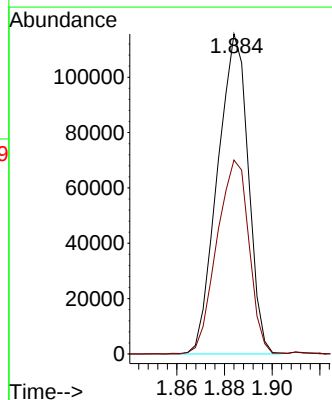
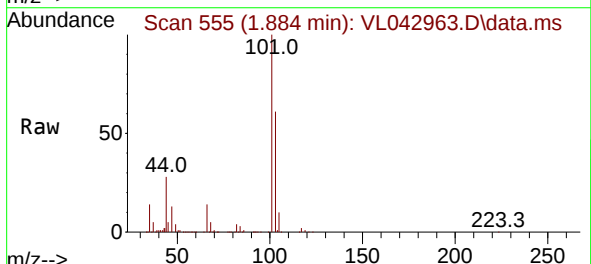
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

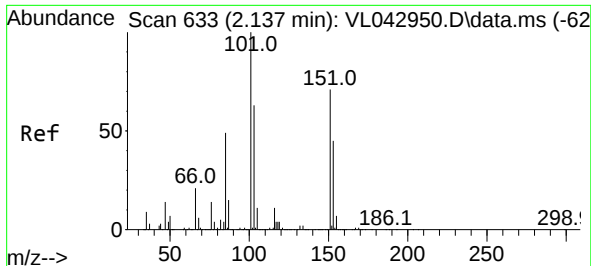
Tgt Ion: 43 Resp: 1036
Ion Ratio Lower Upper
43 100
57 94.7 38.6 57.8#



#11
Trichlorofluoromethane
Concen: 5.009 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.010 min
Lab File: VL042963.D
Acq: 22 Sep 2025 18:39

Tgt Ion: 101 Resp: 103754
Ion Ratio Lower Upper
101 100
103 60.4 50.1 75.1

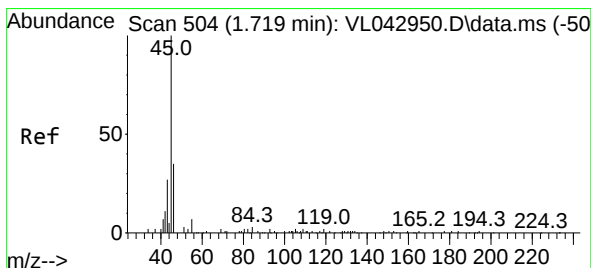
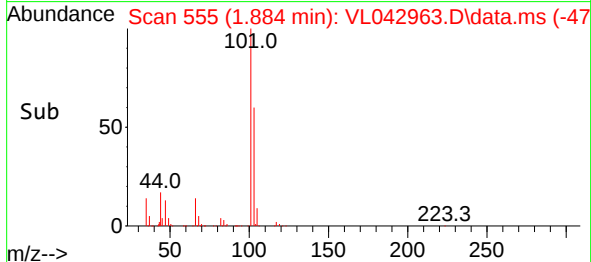
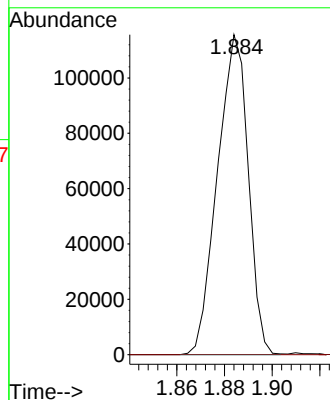
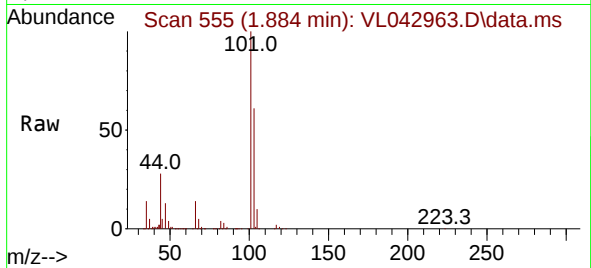




#12
1,1,2-Trichlorotrifluoroethane
Concen: 6.185 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.253 min
Lab File: VL042963.D
Acq: 22 Sep 2025 18:39

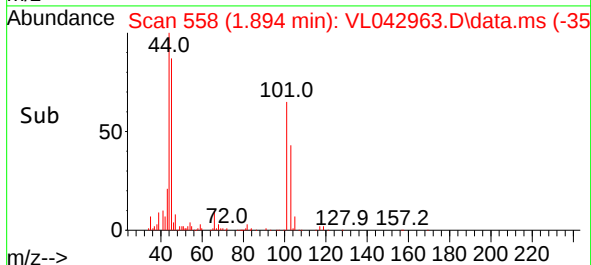
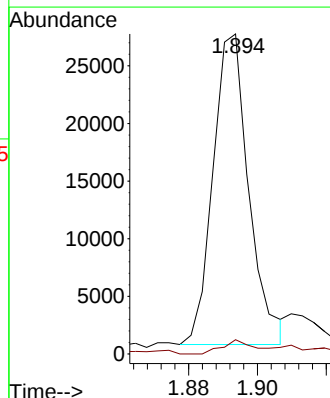
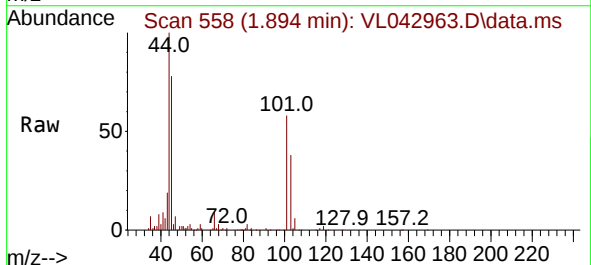
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

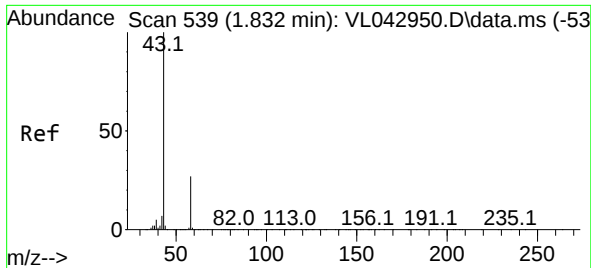
Tgt Ion:101 Resp: 103754
Ion Ratio Lower Upper
101 100
151 0.0 55.7 83.5#



#13
Ethanol
Concen: 17.227 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.175 min
Lab File: VL042963.D
Acq: 22 Sep 2025 18:39

Tgt Ion: 45 Resp: 19466
Ion Ratio Lower Upper
45 100
46 0.0 16.2 64.6#





#15

Acetone

Concen: 1.524 ppbv

RT: 1.842 min Scan# 54

Delta R.T. 0.010 min

Lab File: VL042963.D

Acq: 22 Sep 2025 18:39

Instrument :

MSVOA_L

ClientSampleId :

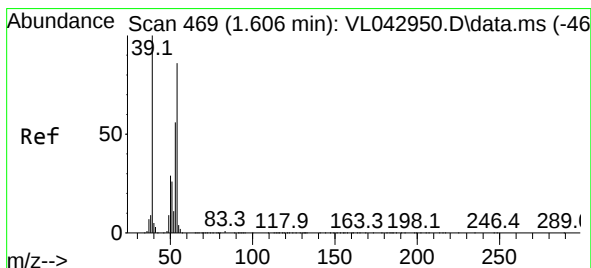
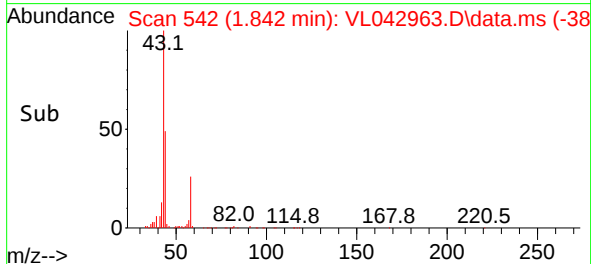
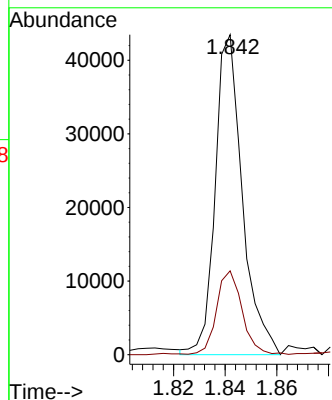
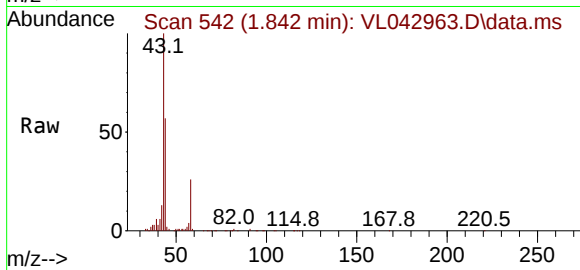
SV1DL

Tgt Ion: 43 Resp: 31697

Ion Ratio Lower Upper

43 100

58 25.2 22.3 33.5



#16

1,3-Butadiene

Concen: 0.253 ppbv

RT: 1.622 min Scan# 474

Delta R.T. 0.016 min

Lab File: VL042963.D

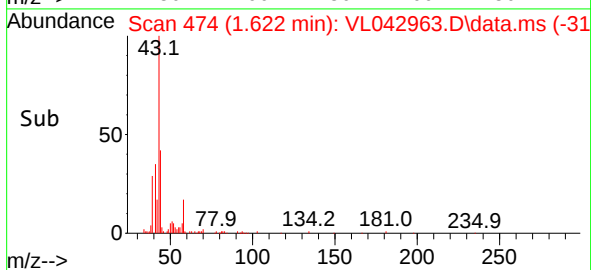
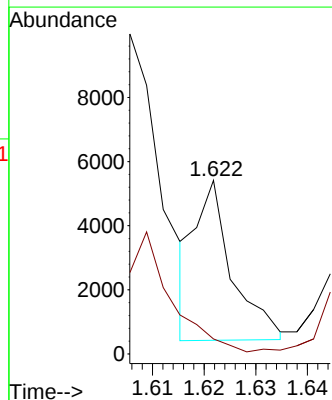
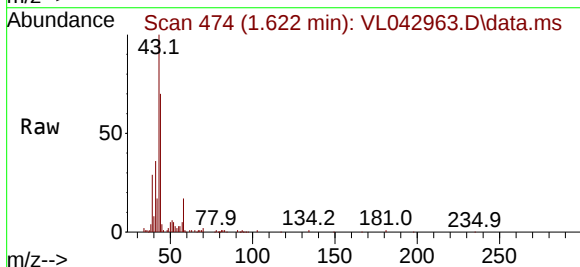
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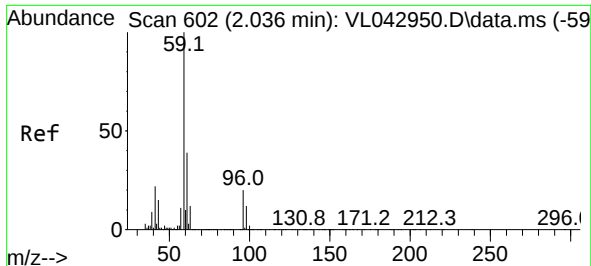
Tgt Ion: 39 Resp: 2486

Ion Ratio Lower Upper

39 100

54 0.0 60.8 91.2#





#17

tert-Butyl alcohol

Concen: 0.114 ppbv

RT: 2.049 min Scan# 602

Delta R.T. 0.013 min

Lab File: VL042963.D

Acq: 22 Sep 2025 18:39

Instrument :

MSVOA_L

ClientSampleId :

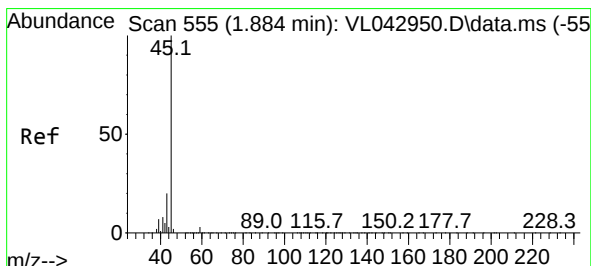
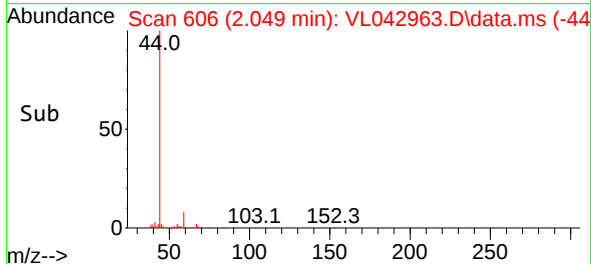
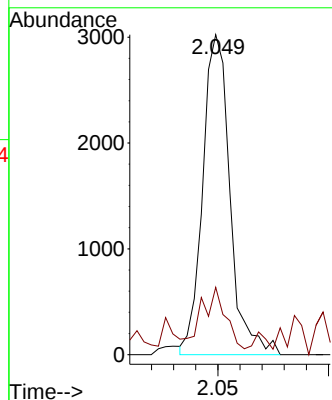
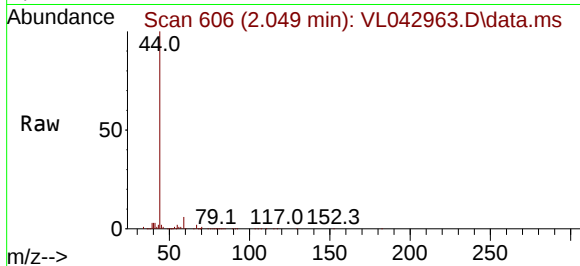
SV1DL

Tgt Ion: 59 Resp: 2591

Ion Ratio Lower Upper

59 100

57 18.1 8.6 12.8#



#19

Isopropyl Alcohol

Concen: 1.557 ppbv

RT: 1.894 min Scan# 558

Delta R.T. 0.010 min

Lab File: VL042963.D

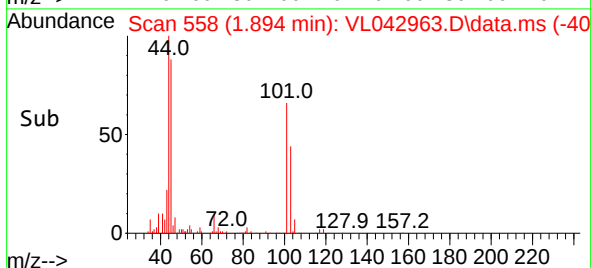
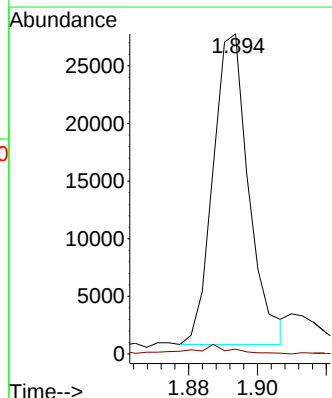
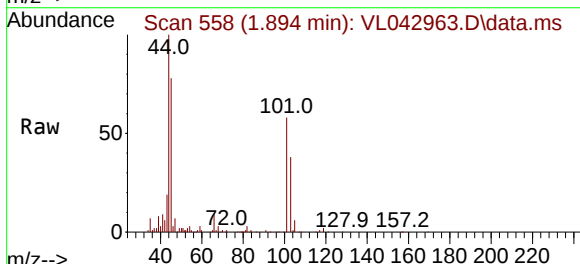
Acq: 22 Sep 2025 18:39

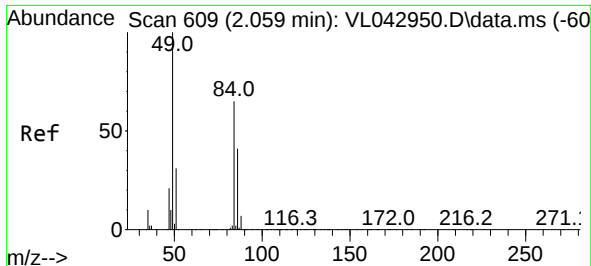
Tgt Ion: 45 Resp: 19466

Ion Ratio Lower Upper

45 100

58 3.6 31.0 46.6#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.068 min Scan# 612

Delta R.T. 0.009 min

Lab File: VL042963.D

Acq: 22 Sep 2025 18:39

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tgt Ion: 84 Resp: 2791

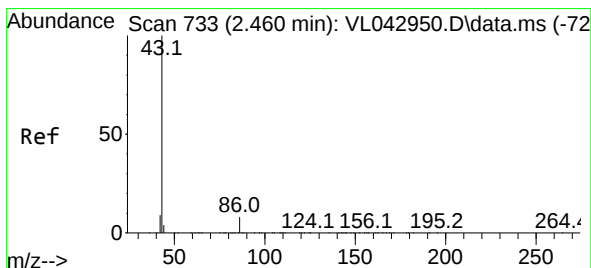
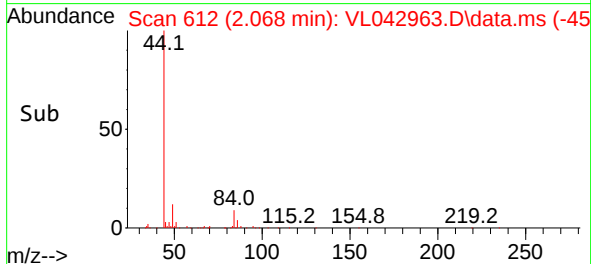
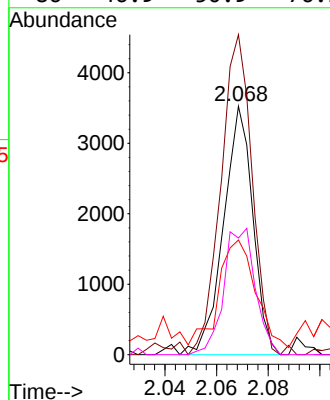
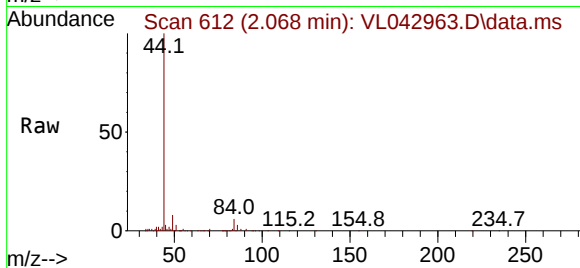
Ion Ratio Lower Upper

84 100

49 133.9 124.1 186.1

51 40.1 39.8 59.8

86 46.9 50.9 76.3#



#23

Vinyl Acetate

Concen: 0.095 ppbv

RT: 2.479 min Scan# 739

Delta R.T. 0.019 min

Lab File: VL042963.D

Acq: 22 Sep 2025 18:39

Tgt Ion: 43 Resp: 2822

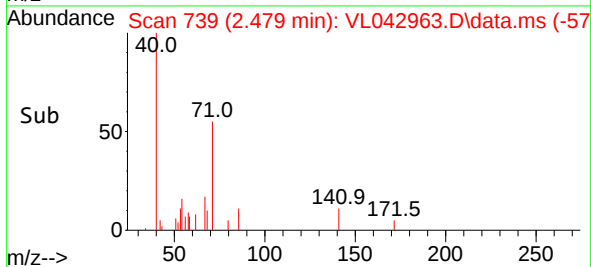
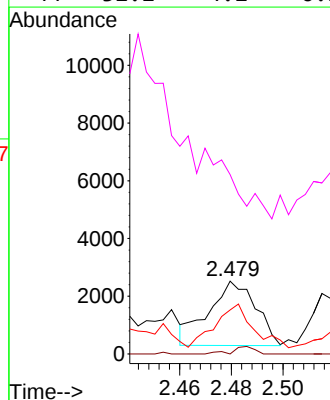
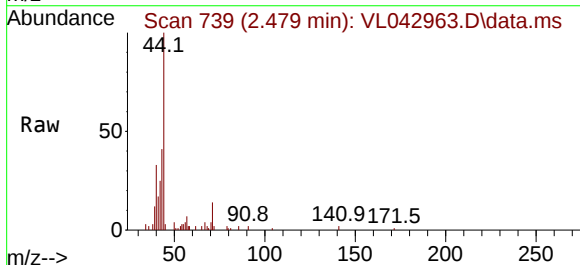
Ion Ratio Lower Upper

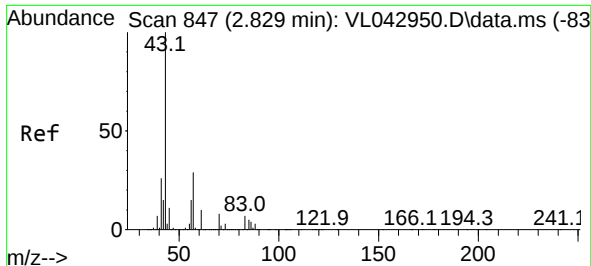
43 100

86 0.0 6.2 9.2#

42 49.8 7.4 11.0#

44 32.2 4.2 6.2#





#25

Ethyl Acetate

Concen: 0.062 ppbv

RT: 2.836 min Scan# 849

Delta R.T. 0.006 min

Lab File: VL042963.D

Acq: 22 Sep 2025 18:39

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tgt Ion: 43 Resp: 3260

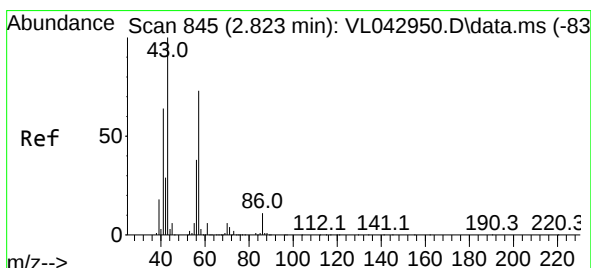
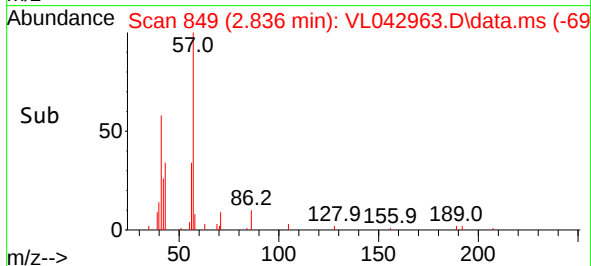
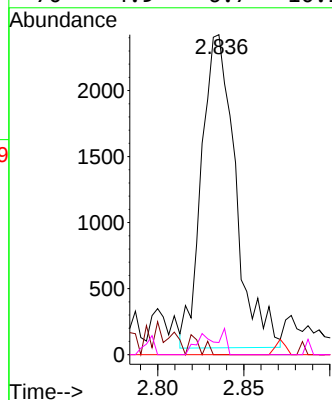
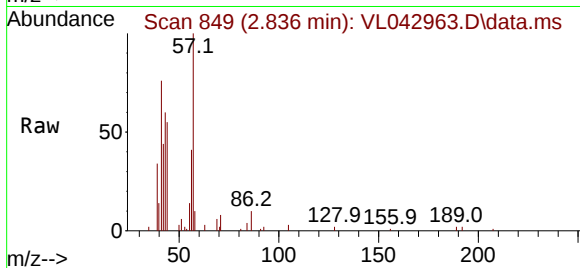
Ion Ratio Lower Upper

43 100

45 0.0 7.7 11.5#

61 0.0 7.1 10.7#

70 4.9 6.7 10.1#



#26

Hexane

Concen: 0.157 ppbv

RT: 2.836 min Scan# 849

Delta R.T. 0.013 min

Lab File: VL042963.D

Acq: 22 Sep 2025 18:39

Tgt Ion: 57 Resp: 3758

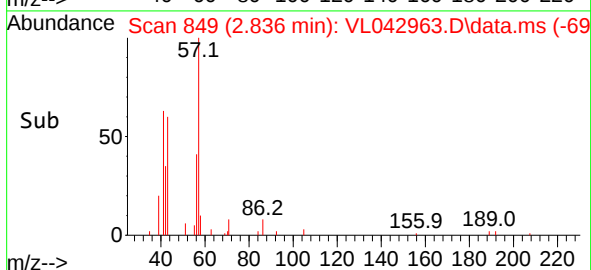
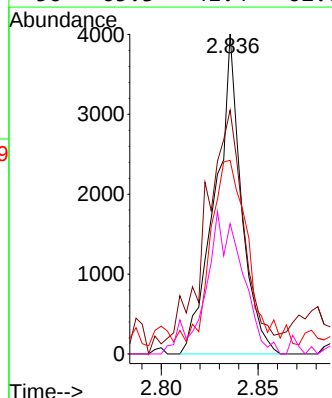
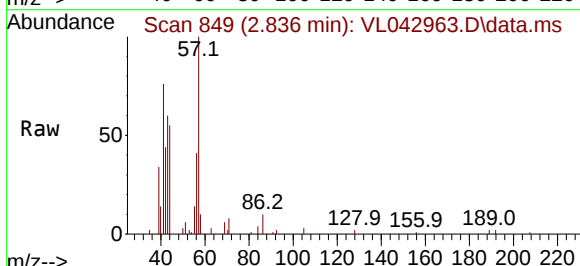
Ion Ratio Lower Upper

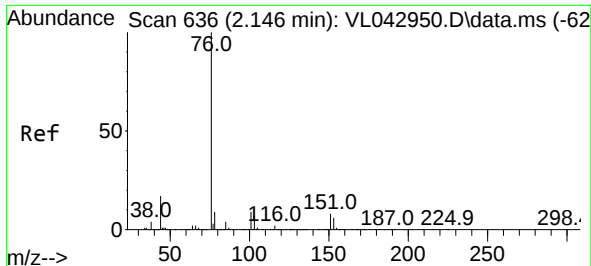
57 100

41 101.4 71.7 107.5

43 113.1 180.8 271.2#

56 65.3 41.4 62.0#

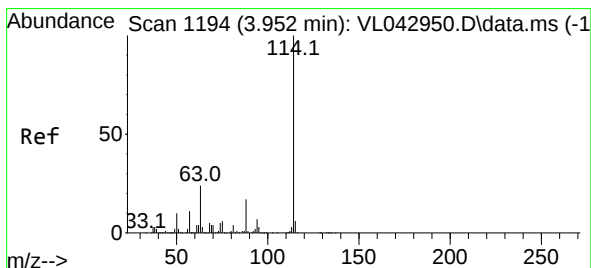
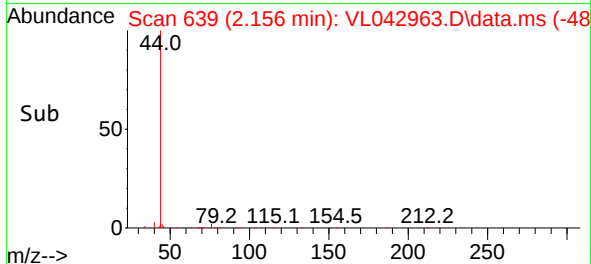
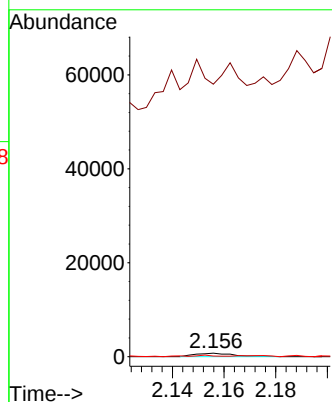
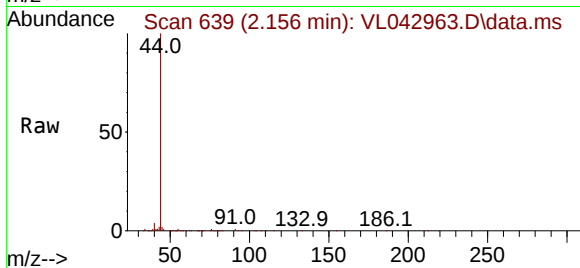




#27
Carbon Disulfide
Concen: 0.035 ppbv
RT: 2.156 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL042963.D
Acq: 22 Sep 2025 18:39

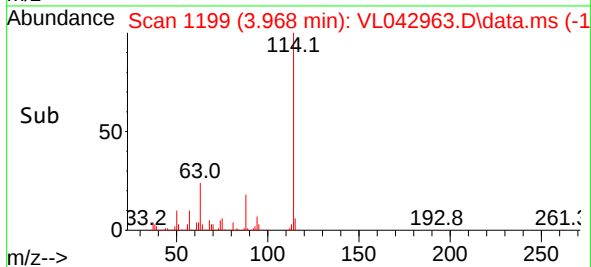
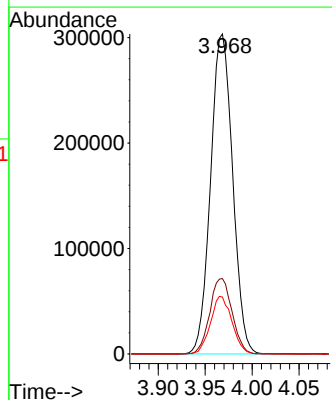
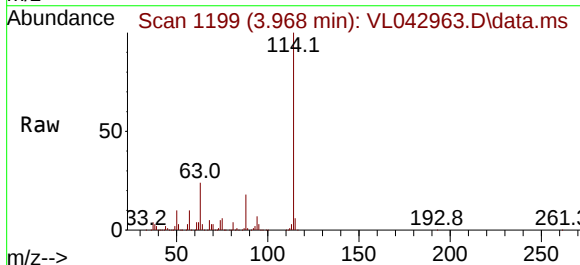
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

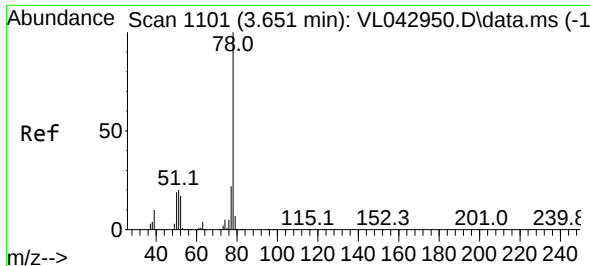
Tgt Ion: 76 Resp: 763
Ion Ratio Lower Upper
76 100
44 22852.2 15.6 23.4#
78 22.5 8.9 13.3#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.016 min
Lab File: VL042963.D
Acq: 22 Sep 2025 18:39

Tgt Ion: 114 Resp: 495497
Ion Ratio Lower Upper
114 100
63 23.9 19.4 29.2
88 17.5 14.2 21.2

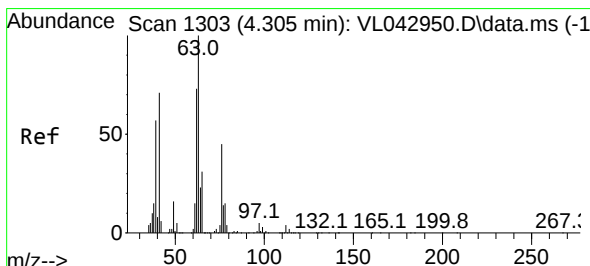
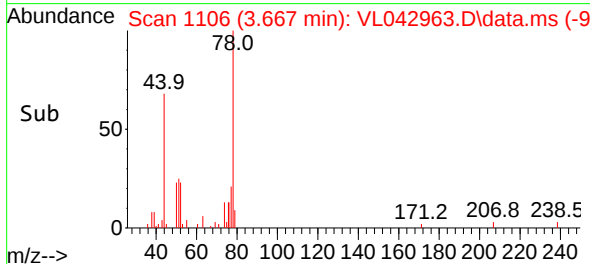
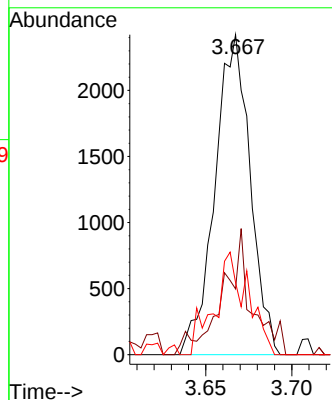
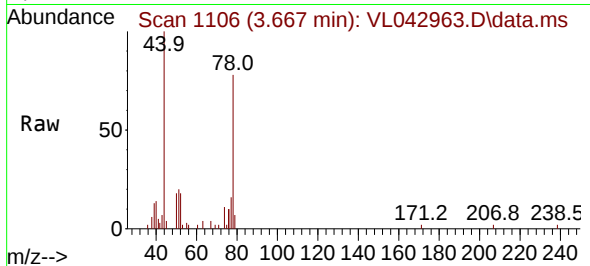




#36
Benzene
Concen: 0.074 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. 0.016 min
Lab File: VL042963.D
Acq: 22 Sep 2025 18:39

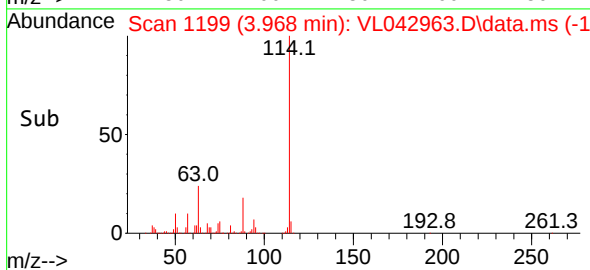
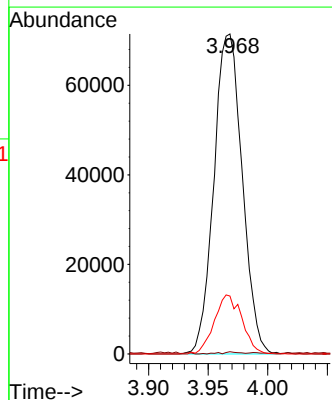
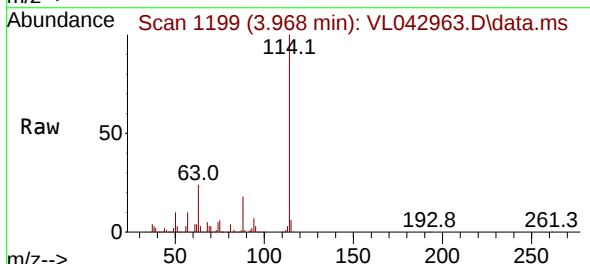
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

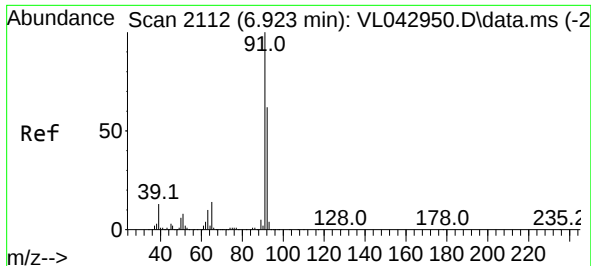
Tgt Ion: 78 Resp: 3457
Ion Ratio Lower Upper
78 100
77 17.6 17.8 26.6#
50 22.5 15.0 22.4#



#39
1,2-Dichloropropane
Concen: 6.950 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. -0.337 min
Lab File: VL042963.D
Acq: 22 Sep 2025 18:39

Tgt Ion: 63 Resp: 118064
Ion Ratio Lower Upper
63 100
41 0.5 57.5 86.3#
62 18.1 58.5 87.7#

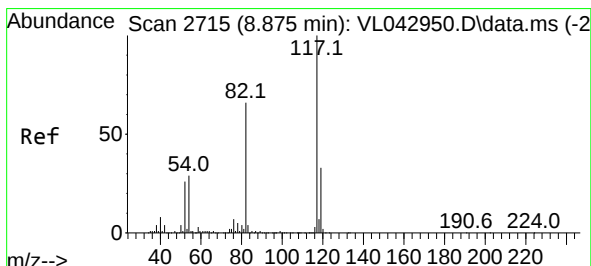
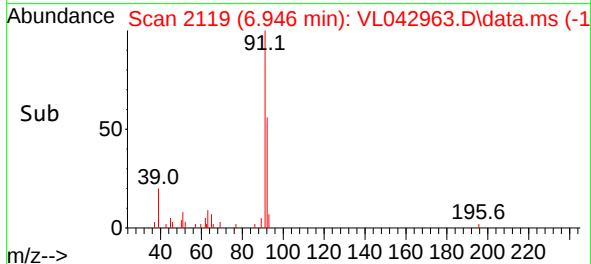
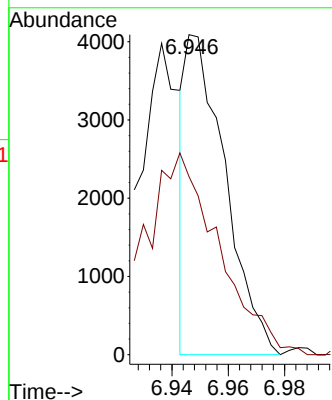
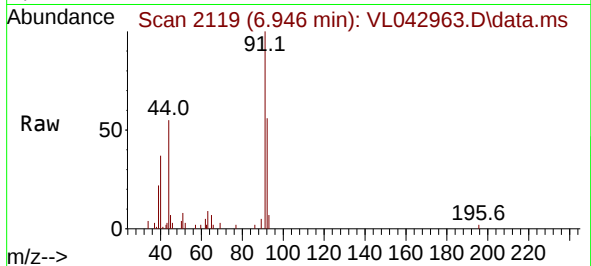




#53
Toluene
Concen: 0.072 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.023 min
Lab File: VL042963.D
Acq: 22 Sep 2025 18:39

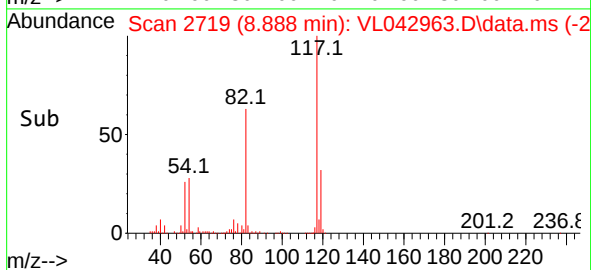
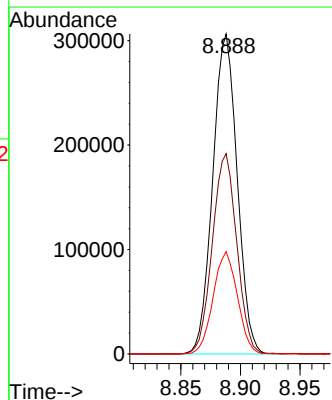
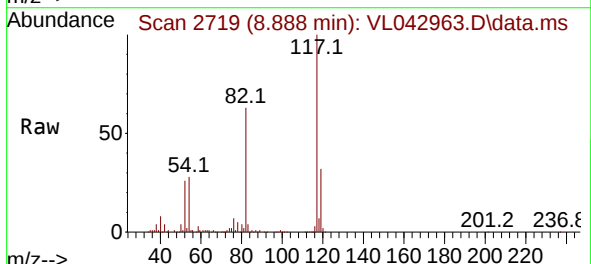
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

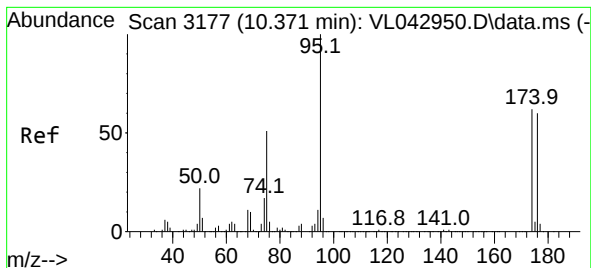
Tgt Ion: 91 Resp: 3971
Ion Ratio Lower Upper
91 100
92 127.1 48.2 72.2#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.013 min
Lab File: VL042963.D
Acq: 22 Sep 2025 18:39

Tgt Ion: 117 Resp: 436304
Ion Ratio Lower Upper
117 100
82 62.7 52.8 79.2
119 31.8 26.5 39.7

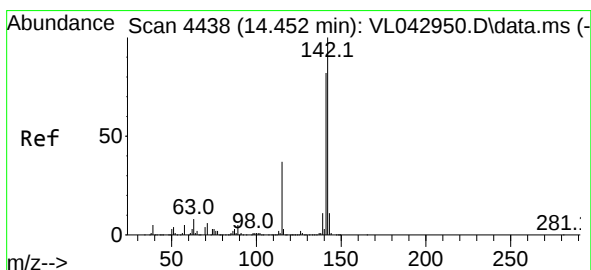
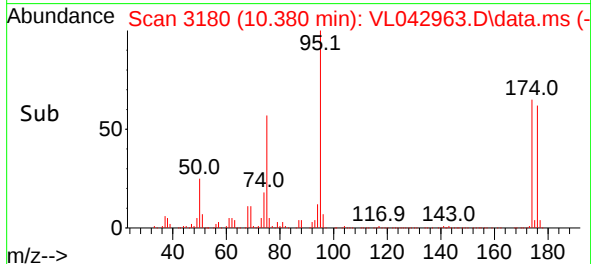
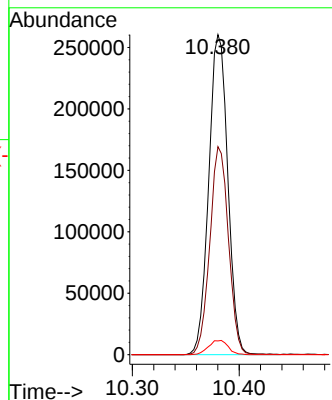
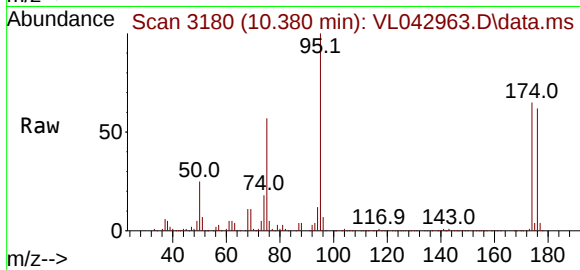




#68
1-Bromo-4-Fluorobenzene
Concen: 9.912 ppbv
RT: 10.380 min Scan# 3177
Delta R.T. 0.010 min
Lab File: VL042963.D
Acq: 22 Sep 2025 18:39

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 95 Resp: 322820
Ion Ratio Lower Upper
95 100
174 63.8 51.4 77.2
175 4.6 4.0 6.0



#80
Naphthalene,2-methyl-
Concen: 0.165 ppbv
RT: 14.465 min Scan# 4442
Delta R.T. 0.013 min
Lab File: VL042963.D
Acq: 22 Sep 2025 18:39

Tgt Ion:142 Resp: 2848
Ion Ratio Lower Upper
142 100
141 85.8 65.1 97.7
115 35.9 28.9 43.3

